

ABSTRACT OF THE DISCLOSURE**ROBOTIC LIBRARY COMMUNICATION PROTOCOL**

5 A method and system are disclosed for transmitting
data among robots and a controller computer system within
an automated robotic library. A robotic library
communication protocol is described for communicating
among the robotic mechanisms and the controller computer
10 system. The robotic library communication protocol
defines multiple fields for each packet including a
preamble field that describes a predetermined preamble
value that is equal to a particular value. Data is
transmitted among the robotic mechanisms and the
15 controller computer system utilizing the robotic library
communication protocol. Each packet that conforms to the
protocol includes only the preamble value in the preamble
field. Power is provided to the robotic mechanisms
utilizing a power signal. Data that has been encoded
20 according to the protocol is transmitted to the robotic
mechanisms using the power signal.